

AMENDMENTS TO THE CLAIMS

1.-26. (Cancelled)

27. (Currently Amended) A method of detecting protein-protein interaction comprising,

(a) ~~providing~~ producing a first fusion protein and a second fusion protein, wherein:

(1) said first fusion protein comprises

(a) a known polypeptide linked to

(b) a first green fluorescent protein (GFP) fragment; and

(2) said second fusion protein comprises

(a) a test polypeptide linked to

(b) a second GFP fragment,

wherein a full length GFP is dissected between the amino acid residues of a surface loop to generate said first and second GFP fragments, and wherein association of the first and second GFP fragments results in a GFP that exhibits detectable fluorescence;

(b) detecting fluorescence from GFP, wherein said fluorescence is indicative of said test polypeptide interacting with said known polypeptide, thereby bringing said first and second GFP fragments into proximity with one another and

associating to form a GFP that exhibits detectable fluorescence, which fluorescence is different from any detectable fluorescence prior to said association.

28. (Currently Amended) The method of claim 27, wherein said first and second fusion proteins are encoded by nucleic acids ~~which nucleic acids are cotransfected or cotransformed into a cell and expressed to obtain the first and second fusion protein.~~

29. (Cancelled)

30. (Previously Presented) The method of claim 27, wherein said full length GFP is dissected between amino acid residues 157 and 158.

31. (Previously Presented) The method of claim 27, wherein the first GFP fragment is an N-terminal fragment of GFP (NGFP) and the second GFP fragment is a C-terminal fragment of GFP (CGFP).

32. (Previously Presented) The method of claim 27, wherein said first GFP fragment comprises the amino acid sequence of SEQ

ID NO:3 and said second GFP fragment comprises the amino acid sequence of SEQ ID NO:5.